



GALLET

F2XR

CLEANING, DISINFECTION AND DECONTAMINATION GUIDELINES



WHEN YOU GO IN, WE GO IN WITH YOU.

GOOD PRACTISES FOR FIRE HELMET CLEANING



At the **FIRE SCENE**

- ✓ If possible, rinse the helmet with water on site immediately after intervention
- ✓ If not possible to rinse with water, perform a dry pre-cleaning with microfiber cloths directly on site
- ✓ Put your helmet in an isolated area in order to avoid any cross contamination inside the fire truck



Back to the **FIRE STATION**

- ✓ Clean helmet as soon as possible after soiling following the procedures described below



Important **RULES**

- ✓ Always wear gloves when handling soiled equipment
- ✓ Do not use abrasive materials to clean your helmet
- ✓ Do not use solvent-based products (acetone, alcohol, ...) or softeners to clean your helmet

TEXTILE ELEMENTS CLEANING PROCEDURES













- ✓ Remove components which are in contact with the firefighter's head: chinstrap and padding. You can also include the neck curtain.

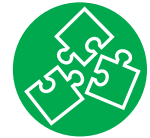
Neck curtains are exposed to contamination and may need to be washed more frequently than internal textile elements.

- ✓ Put components in a washing machine bag (P/N GA1173).

Close the Velcro straps of the padding.

Put bag in tumbling machine and select program as follows:

| Elementos | Instrucciones | Iconos de cuidado |
|---|--|--|
| Padding GA3715 | Washing at 60°C max., gentle cycle Do not bleach Do not iron Do not tumble dry |     |
| Chinstrap GA3711 | Washing at 30°C max., gentle cycle Do not bleach Do not iron Do not tumble dry |     |
| Nape neck curtain GA3709 | Washing at 60°C max. Do not bleach Iron dry at 110°C max. Tumble dry at 60°C max. |     |



Use Clax Plus and Clax 100 Color detergents (Diversey) with the following dosing recommendations.:

| Detergent | Pre Wash (per kg) | Main Wash (per kg) |
|-----------------------|-------------------|--------------------|
| Clax 100 Color | 8 g | 8 g |
| Clax Plus | 23 g | 28 g |

- ✓ Re-install textile components on GALLET F2XR helmet after air-drying or tumble dry (see above table for detailed care instructions per element).

The helmet must be completely dried before returning to service.



HELMET CLEANING PROCEDURES

MANUAL Cleaning Procedure – without Disassembly

Ingredients: water and soap

- ✓ Remove electronic components from helmet (lights, active hearing protection, ...)
- ✓ Rinse shell and interior parts (textile, shell, ocular visor) thoroughly with water (about 30°C)

Use pH neutral soap and microfiber cloth or sponge (soft side) to scrub the different helmet components

- Shell and accessory interface
- Face shield and ocular visor (inner and outer surface)
- Internal elements (padding, chinstrap, plastic pieces)
- Neck curtain

- ✓ Rinse helmet thoroughly with warm water (about 30°C)
- ✓ Dry helmet

- Ambient air drying => 24 hours
- Warm room drying => several hours
- Drying cabinet (with or without ozone) => 2 hours
Maximum level of ozone: 0.2 ppm

The drying times are only an indication.

The helmet must be completely dried before returning to service.



MECHANICAL Cleaning Procedure – without Disassembly

Fixed-basket washing machine

- ✓ In case of highly soiled helmets, proceed to manual pre-cleaning with warm water
- ✓ Remove electronic components from helmet (lights, active hearing protection, ...)
- ✓ Insert complete helmet into washing machine
- ✓ Select program adapted to fire helmets
 - Maximum temperature of 30°C
 - Cycle time between 3 and 8 minutes depending on the selected machine and the soiling level
 - Use the following Diversey products combination through the dosing system of the machine:
 - Suma Jade Pur-Eco L8 detergent with the following dosing: 2 ml per litre of water
 - Suma Med Neutral neutralizer with the following dosing: 0.2 ml per litre of water
 The neutralizer allows to avoid any detergent residue on the helmet components.
- ✓ Dry helmet
 - Ambient air drying => 24 hours
 - Warm room drying => several hours
 - Drying cabinet (with or without ozone) => 2 hours
Maximum level of ozone: 0.2 ppm

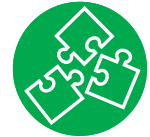
The drying times are only an indication.

The helmet must be completely dried before returning to service.

Ozone Cabinet

This procedure has been tested and approved with Novven Ozone Cabinet.
Program and level of ozone may vary according to the cabinet brand.

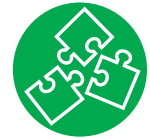
- ✓ Pre-clean the helmets with soft cloth and warm water
- ✓ Remove electronic components from helmets (lights, active hearing protection, ...)
- ✓ Insert complete helmet into the cabinet
- ✓ Select program adapted to fire helmets
 - **Option 1: Standard drying & cleaning program**
 - Max. temperature 50°C
 - Level of ozone: 0.2 ppm
 - Cycle time: between 45 minutes and 4 hours
 - **Option 2: Eco-Friendly drying & cleaning program**
 - Max. temperature 45°C
 - Level of ozone: 0.2 ppm
 - Cycle time: between 2 and 6 hours



HELMET DECONTAMINATION PROCEDURE WITH OZONE CABINET

This procedure has been tested and approved with Novven Ozone Cabinet.
Program and level of ozone may vary according to the cabinet brand.

- ✓ Pre-clean the helmets with soft cloth and warm water
- ✓ Remove electronic components from helmets (lights, active hearing protection, ...)
- ✓ Insert complete helmets into the cabinet
- ✓ Select program adapted to fire helmets
 - Max. temperature 58°C
 - Level of ozone: 0.5 ppm
 - Cycle time: 2 or 4 hours



HELMET DISINFECTION PROCEDURES

With Diversey Products

- ✓ In addition to regular cleaning, Diversey Oxivir® Excel™ Broad Spectrum Cleaner and Disinfectant may be used for disinfection.

It is important to follow the cleaning manufacturer's instructions, including contact time to achieve disinfection.

For recommendations on the method of application and details on the exact nature of the agents, please refer to the product and safety datasheets on the vendor's website.

If the indicated disinfectant is not available in your country, please refer to its technical specifications and guidance from your local authorities to find a product with equivalent concentrations of the same active ingredients that can be sourced locally.

- ✓ If in doubt, soft clothes (padding, chinstraps, neck curtains, etc.) should be removed and replaced by new ones.

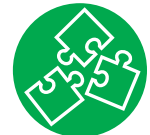
Please refer to the user manual for references of the corresponding spare parts.



With Ozone Cabinet

This procedure has been tested and approved with Novven Ozone Cabinet. Program and level of ozone may vary according to the cabinet brand.

- ✓ Pre-clean the helmets with soft cloth and warm water
- ✓ Remove electronic components from helmets (lights, active hearing protection, ...)
- ✓ Insert complete helmets into the cabinet
- ✓ Select program adapted to fire helmets
 - Max. temperature 60°C
 - Level of ozone: 0.7 ppm
 - Cycle time: 45 minutes or 2 hours



Once cleaning, disinfection or decontamination is completed, perform complete check of helmet with detailed inspection of each critical component (suspension, shell, chinstrap). MSA recommends to have a system for keeping minimal records for their GALLET F2XR helmets in case of repair.



ABOUT

MSA – THE SAFETY COMPANY

Established in 1914, MSA Safety Incorporated is the global leader in the development, manufacture and supply of safety products that protect people and facility infrastructures. Many MSA products integrate a combination of electronics, mechanical systems and advanced materials to protect users against hazardous or life-threatening situations. The company's comprehensive product line is used by workers around the world in a broad range of markets, including the oil, gas and petrochemical industry, the fire service, the construction industry, mining and the military. MSA's core products include self-contained breathing apparatus, fire protective clothing, fixed gas and flame detection systems, portable gas detection instruments, industrial head protection products, fire and rescue helmets, and fall protection devices.

Personal protective equipment (PPE) provides limited protection. Proper use, cleaning, and disinfection of PPE may help to reduce exposure to toxins, contaminants, biological agents, and the risk of viral infection but IMPORTANTLY IT DOES NOT ELIMINATE the risk of exposure, infection, illness, or death. MSA does not warrant the efficacy of any of its PPE products, or of the products or cleaning methods in this material, in preventing the spread and/or contraction of infection, illness, or disease and disclaims liability for any loss, damage or injury resulting from any exposure to toxins, contaminants, biological agents, and/or viral infection, whether direct, indirect, special, incidental or consequential, regardless of the legal or equitable theory asserted, including warranty, contract, negligence or strict liability.